

# **PERRIS DAM EMERGENCY RELEASE FACILITY**

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## Mitigation Monitoring and Reporting Program

### **Introduction**

This Mitigation Monitoring and Reporting Program (MMRP) report includes mitigation measures identified in the Final Environmental Impact Report (EIR) that are required to address impacts associated with the project. The impacts associated with this project and required mitigation measures are summarized in this program; the full text of the impact analysis and mitigation measures are presented in the Department of Water Resources (DWR) Perris Dam Emergency Release Facility EIR. The EIR analyzed the impacts for the proposed project. This MMRP outlines the mitigation monitoring and reporting for the proposed project.

The MMRP is organized in a table format keyed to each impact and adopted mitigation measure. Each mitigation measure is set out in full, followed by a tabular summary of monitoring requirements, monitoring responsibility and monitoring schedule. Monitoring requirements include implementation procedure, and monitoring and reporting requirements. Monitoring responsibility names the responsible party for each implementation procedure and the associated monitoring and reporting action. Finally, the monitoring schedule outlines the phase of the project (e.g., project design, construction, operation, etc.) when each implementation procedure and associated monitoring and reporting action must occur. The implementation procedures, monitoring actions, and schedules identified in this MMRP provide a guide for successful implementation of mitigation measures identified in the Final EIR. Implementation procedures, monitoring actions, and the monitoring schedule may change as necessary to ensure full implementation of applicable measures.

# MITIGATION MONITORING AND REPORTING PROGRAM

## Perris Dam Emergency Release Facility Project

| Mitigation Measures   | Implementation, Monitoring, and Reporting Action   | Responsibility          | Monitoring Schedule |                     |                    |
|---|--|-------------------------|---------------------|---------------------|--------------------|
|   |  |                         | Before Construction | During Construction | After Construction |
| <b>Aesthetics</b>   |  |                         |                     |                     |                    |
| <i>No mitigation required.</i>  |  |                         |                     |                     |                    |
| <b>Air Quality</b>  |  |                         |                     |                     |                    |
| <p><b>AQ-1:</b> The haul truck trips transporting rock material from the Perris Dam quarry in the Bernasconi Hills to the staging area below the Perris Dam shall be limited to a maximum of 74 round trips daily.</p>  | <ul style="list-style-type: none"> <li>Include Mitigation Measure AQ-1 in the construction contract specifications.</li> <li>Perform site inspections to verify contractor compliance with truck trip maximum limits. Retain inspection records in the project file.</li> </ul>  | DWR                     | X                   | X                   |                    |
| <p><b>AQ-2:</b> Construction equipment and vehicles greater than 50 hp shall either have EPA Tier 4 engines or have engines that are retrofitted to include emissions reduction features that reduce emissions to the level of EPA Tier 4 interim levels.</p> | <ul style="list-style-type: none"> <li>Limit haul truck trips to a maximum of 74 round trips per day.</li> <li>Include Mitigation Measure AQ-2 in the construction contract specifications.</li> <li>Perform site inspections to verify contractor compliance with vehicle specifications. Retain inspection records in the project file.</li> </ul> | Construction Contractor |                     | X                   |                    |
| <p><b>AQ-3:</b> Construction equipment and vehicles greater than 50 hp shall either have EPA Tier 4 engines or have engines that are retrofitted to include emissions reduction features that reduce emissions to the level of EPA Tier 4 interim levels.</p> | <ul style="list-style-type: none"> <li>Include Mitigation Measure AQ-2 in the construction contract specifications.</li> <li>Perform site inspections to verify contractor compliance with vehicle specifications. Retain inspection records in the project file.</li> </ul>   | DWR                     | X                   | X                   |                    |
| <p><b>Biological Resources</b></p>  | <ul style="list-style-type: none"> <li>For equipment and vehicles greater than 50 hp, use EPA Tier 4 engines or have engines that are retrofitted to include emissions reduction features that reduce emissions to the level of EPA Tier 4 interim levels.</li> </ul>  | Construction Contractor |                     |                     | X                  |

**DWR PERRIS DAM REMEDIATION PROGRAM MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)**

|   | Implementation, Monitoring, and Reporting Action   | Responsibility          | Monitoring Schedule |                     |                    |
|---|--|-------------------------|---------------------|---------------------|--------------------|
|   |  |                         | Before Construction | During Construction | After Construction |
| <b>Mitigation Measures</b>  |  |                         |                     |                     |                    |
| <b>BIO-1:</b> DWR shall conduct preconstruction rare plant surveys during the blooming period of the plants with potential to occur on-site. If rare plants are found to be present within or near the project impact area, the construction zone limits shall be staked, flagged, fenced, or otherwise clearly delineated by a qualified biologist to ensure that the construction zone is limited to minimize impacts on special-status plant species. These limits shall be identified in the construction drawings. No earth-moving equipment shall be allowed outside demarcated construction zones unless preapproval is obtained from a qualified biologist and in coordination with the USFWS and CDFW.   | <ul style="list-style-type: none"> <li>Conduct preconstruction rare plant surveys during the blooming period.</li> <li>If rare plants are found within or near the impact area, retain a qualified biologist to stake, flag, fence or otherwise clearly delineate construction zone limits.</li> <li>Perform site inspections to verify contractor compliance with preapprovals for movement outside of demarcated construction zones. Retain inspection records in the project file.</li> </ul> | DWR                     | X                   | X                   |                    |
| <b>BIO-2a:</b> DWR shall implement the following measures:  |  |                         |                     |                     |                    |
| <ul style="list-style-type: none"> <li>DWR shall have a qualified biologist with a Stephens' kangaroo rat handling permit conduct preconstruction surveys for the Stephens' kangaroo rat within the grassland habitat to determine and map the location and extent of Stephens' kangaroo rat occurrence(s) within the project impact area. Confirmed Stephens' kangaroo rat precincts shall be avoided with the establishment of a nondisturbance buffer zone approved by USFWS and CDFW.</li> <li>Where avoidance of confirmed Stephens' kangaroo rat precincts is infeasible, DWR shall purchase credits at an approved Stephens' kangaroo rat mitigation bank or replace occupied-habitat at a 1:1 ratio, or as approved by USFWS, CDFW, and the RCHCA</li> <li>If an emergency drawdown inundates grasslands within the SRA, DWR shall coordinate with USFWS, CDFW, and the RCHCA to determine the appropriate compensation or remediation, if</li> </ul> | <ul style="list-style-type: none"> <li>Do not allow earth-moving equipment outside demarcated construction zones unless preapproval is obtained from a qualified biologist and in coordination with the USFWS and CDFW.</li> </ul>   | Construction Contractor | X                   | X                   |                    |
| <ul style="list-style-type: none"> <li>Prior to construction, obtain a qualified biologist to perform Stephen's kangaroo rat surveys to determine and map the location and extent of the kangaroo rat within the project area.</li> <li>Where avoidance of Stephens' kangaroo rat precincts is infeasible, purchase credits at an approved Stephens' kangaroo rat mitigation bank or replace occupied-habitat at a 1:1 ratio, or as approved by the RCHCA.</li> <li>Within the SRA, coordinate with the RCHCA to determine the appropriate compensation or remediation as specified in Mitigation Measure BIO-2.</li> <li>Perform site inspections to verify contractor avoidance of the nondisturbance buffer zone. Retain inspection records in the project file.</li> </ul>  |  | DWR                     | X                   | X                   |                    |

**DWR PERRIS DAM REMEDIATION PROGRAM MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)**

| Mitigation Measures   | Implementation, Monitoring, and Reporting Action   | Responsibility          | Monitoring Schedule |                     |                    |
|---|--|-------------------------|---------------------|---------------------|--------------------|
|   |  |                         | Before Construction | During Construction | After Construction |
| <p>necessary. The consultation shall consider known and potential Stephen's kangaroo rat occurrences at the time of the drawdown event</p>  | <ul style="list-style-type: none"> <li>Avoid confirmed kangaroo rat precincts by avoiding the established nondisturbance buffer zones.</li> </ul>  | Construction Contractor |                     | X                   |                    |
| <p><b>BIO-2b:</b> Prior to initiation of construction, DWR shall place exclusionary fencing around the proposed work area within the SRA where small mammal habitat exists. Once fencing has been installed, a qualified biologist will trap and move small mammals, as well as other incidental wildlife, within the work zone to an appropriate location outside of the impact area. Trapping will occur no more than one week prior to the start of construction activities. Once construction has been completed, DWR shall remove the exclusionary fence.</p>  | <ul style="list-style-type: none"> <li>Prior to construction, obtain a qualified biologist to trap and move small mammals.</li> <li>Perform placement of exclusionary fencing around the proposed work area no more than a week prior to construction.</li> <li>Remove exclusionary fencing once construction is complete.</li> </ul>  | DWR                     | X                   |                     |                    |
| <p><b>BIO-2c:</b> DWR shall prepare a Restoration Plan in coordination with USFWS and CDFW that identifies an appropriate seed mix for revegetation, hydroseeding methods, monitoring frequency requirements, and habitat performance criteria that will identify the minimum percent cover of restored vegetation along the affected areas. Monitoring shall be conducted to determine the presence of small mammal use of the restored levee slopes. Once presence of small mammals has been established along segments of the levee, no further surveys will be required in those segments. If no small mammal species are found utilizing the revegetated slopes within five years of the restoration, DWR will coordinate with USFWS and CDFW to determine an appropriate grassland habitat compensation property to be conserved in perpetuity.</p> | <ul style="list-style-type: none"> <li>Coordinate with USFWS and CDFW to prepare a Restoration Plan that identifies an appropriate seed mix for revegetation, hydroseeding methods, monitoring frequency requirements, and habitat performance criteria that will identify the minimum percent cover of restored vegetation along the affected areas.</li> <li>Coordinate with USFWS and CDFW to determine an appropriate grassland habitat compensation property</li> </ul> | DWR                     | X                   |                     |                    |
| <p><b>BIO-3:</b> DWR shall have a qualified biologist conduct a preconstruction reconnaissance survey for nesting migratory bird species, burrowing owls, and other nesting birds within 300 feet of the construction limits of each project element to determine and map the location and extent of special-status species occurrence(s) that could be affected by the project.</p>  | <ul style="list-style-type: none"> <li>Retain a qualified biologist to conduct a preconstruction spring/summer active season reconnaissance survey birds as specified in Mitigation Measure BIO-3.</li> </ul>  | DWR                     |                     |                     | X                  |

**DWR PERRIS DAM REMEDIATION PROGRAM MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)**

| Mitigation Measures   | Implementation, Monitoring, and Reporting Action   | Responsibility          | Monitoring Schedule |                     |                    |
|---|--|-------------------------|---------------------|---------------------|--------------------|
|   |  |                         | Before Construction | During Construction | After Construction |
| <p><b>BIO-4:</b> If potential burrowing owl habitat or signs of owls are found to be present, appropriate protocol surveys must be conducted no more than 1 year prior to project implementation between February 1 and August 31 in accordance with the 2012 CDFW Staff Report on Burrowing Owl Mitigation. Avoidance of burrowing owls during the nesting season shall be required, and if burrowing owls are found outside of the nesting season, either passive or active relocation shall be required in consultation with CDFW. If CDFW determines that burrowing owl relocation is required, a qualified biologist shall prepare a burrowing owl relocation plan for approval by CDFW, and a qualified biologist with the appropriate handling permit shall implement the relocation activities and procedures described in the relocation plan.</p> | <ul style="list-style-type: none"> <li>If potential burrowing owl habitat or signs of owls are present, retain a qualified biologist to conduct appropriate protocol surveys no more than 1 year prior to project implementation between February 1 and August 31 in accordance with the 2012 CDFW Staff Report on Burrowing Owl Mitigation.</li> <li>If burrowing owls are found outside of the nesting season, require passive or active relocation by a qualified biologist in consultation with CDFW.</li> <li>If CDFW determines that burrowing owl relocation is required, retain a qualified biologist to prepare a burrowing owl relocation plan for approval by CDFW.</li> <li>Retain a qualified biologist with the appropriate handling permit to implement the relocation activities and procedures described in the relocation plan.</li> <li>Perform site inspections to verify contractor avoidance of burrowing owls during the nesting season. Retain inspection records in the project file.</li> <li>Avoid burrowing owls during the nesting season.</li> </ul> | DWR                     | X                   | X                   |                    |
|   |  | Construction Contractor |                     | X                   |                    |

**DWR PERRIS DAM REMEDIATION PROGRAM MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)**

| Mitigation Measures   | Implementation, Monitoring, and Reporting Action  | Responsibility | Monitoring Schedule |                     |                    |
|---|---|----------------|---------------------|---------------------|--------------------|
|   |   |                | Before Construction | During Construction | After Construction |
| <p><b>BIO-5:</b> DWR shall avoid direct impacts on any nesting birds located within the limits of construction by removing plant material outside of the typical breeding season (which is February 1 through August 31).</p>   | <ul style="list-style-type: none"> <li>Avoid direct impacts on any nesting birds located within the limits of construction by removing plant material outside of the typical breeding season (which is February 1 through August 31).</li> </ul>  | DWR            | X                   |                     |                    |
| <p><b>BIO-6:</b> If construction and vegetation removal is proposed during the bird nesting period (February 1 through August 31) or nests are observed during the preconstruction surveys, then active nest sites located during the preconstruction surveys shall be avoided and a nondisturbance buffer zone established dependent on the species. The type and intensity of buffer will be determined in the field by the qualified biologist. Nest sites shall be avoided with nondisturbance buffer zones until the adults and young are no longer reliant on the nest site for survival, as determined by a qualified biologist.</p>   | <ul style="list-style-type: none"> <li>If construction and vegetation removal is proposed during the bird nesting period, retain a qualified biologist to determine a nondisturbance buffer zone dependent on the species.</li> <li>If construction and vegetation removal is proposed during the bird nesting period, then avoid active nest sites located during the preconstruction surveys.</li> <li>Avoid nest sites with nondisturbance buffer zones until the adults and young are no longer reliant on the nest site for survival, as determined by a qualified biologist.</li> </ul> | DWR            | X                   |                     |                    |
| <p><b>Cultural Resources</b></p> <p><b>CUL-1:</b> Prior to earthmoving activities, cultural resources sensitivity training shall be presented to all construction personnel. The training will be conducted by a qualified archaeologist (meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology [U.S. Department of the Interior, 2008]), or an archaeologist working under the direction of the qualified archaeologist, along with a Native American representative from a tribe that is culturally and traditionally affiliated with the project area. Construction personnel shall be informed of the types of cultural resources that may be encountered, and, to bring awareness to personnel of actions to be taken in the event of a cultural resources discovery and safety procedures to be followed when working in close proximity to archaeological or tribal monitors. DWR shall ensure that all construction personnel are made available for and attend the training and retain documentation demonstrating attendance.</p> | <ul style="list-style-type: none"> <li>Include Mitigation Measure CUL-1 in the construction contract specifications.</li> <li>Ensure that construction personnel attend the training and retain documentation demonstrating attendance.</li> <li>Train construction personnel in the identification of cultural resources as specified in Mitigation Measure CUL-1.</li> <li>Attend the cultural resources training identified in Mitigation Measure CUL-1.</li> </ul>  | DWR            |                     | X                   |                    |

**DWR PERRIS DAM REMEDIATION PROGRAM MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)**

| Mitigation Measures   | Implementation, Monitoring, and Reporting Action   | Responsibility          | Monitoring Schedule |                     |                    |
|---|--|-------------------------|---------------------|---------------------|--------------------|
|   |  |                         | Before Construction | During Construction | After Construction |
| <p><b>CUL-2:</b> An archaeological monitor (working under the direct supervision of the qualified archaeologist) shall be present during all ground-disturbing activities related to the project. A Native American representative from a tribe that is culturally and traditionally affiliated with the project area shall be invited to participate in the monitoring effort. Based on observations made by the archaeological and Tribal monitors, monitoring activities may be modified at the recommendation of the qualified archaeologist in coordination with the Tribal Monitor and DWR. Archaeological and Tribal monitors shall have the authority to stop and redirect grading in the immediate area of all discoveries (within 100 feet) until they can be evaluated and appropriate next steps determined in accordance with procedures and protocols outlined in Mitigation Measure CUL-3.</p>   | <ul style="list-style-type: none"> <li>Ensure an archeological monitor is present during initial ground disturbing activities to assess subsurface conditions as described in Mitigation Measure CUL-2.</li> <li>Invite a Native American monitor to be present during initial ground-disturbing activities.</li> <li>Modify monitoring activities as recommended by the qualified archaeologist.</li> </ul>   | DWR                     | X                   | X                   |                    |
| <p><b>CUL-3:</b> In the event of the unanticipated discovery of archaeological materials, DWR shall immediately cease all work activities in the area (within approximately 100 feet) of the discovery until it can be evaluated by the qualified archaeologist, in coordination with appropriate Native American representatives who are culturally and traditionally affiliated with the project area, and DWR. Cultural and archaeological resources are inadvertent discoveries when they were not anticipated to be found during the project's activities. This may include previously unknown sacred sites and items, midden deposits, artifacts, hearths, bedrock outcrops, human remains and other resources, etc. Historic-period materials might include stone or concrete footings and walls, filled wells or privies; and deposits of metal, glass, and/or ceramic refuse. Construction shall not resume until the qualified archaeologist has conferred with DWR on the significance of the resource. Consistent with California Public Resources Code Section 21083.2(b), avoidance and preservation in place</p> | <ul style="list-style-type: none"> <li>Coordinate with DWR to ensure an archaeological monitor and potentially a Native American monitor are present during initial ground disturbing activities.</li> <li>If a discovered archaeological resource constitutes a historical resource under CEQA, avoidance and preservation in place is preferred. If data recovery through excavation is the only feasible mitigation available, retain and consult with a qualified archaeologist to prepare a Cultural Resources Treatment Plan as specified in mitigation Measure CUL-3.</li> <li>Consult with appropriate Native American representatives in determining treatment for prehistoric or Native American resources.</li> </ul> | Construction Contractor | X                   | X                   |                    |

**DWR PERRIS DAM REMEDIATION PROGRAM MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)**

|   | Monitoring Schedule                                  |                     |                    |
|---|--|---------------------|--------------------|
|   | Before Construction                                  | During Construction | After Construction |
| <p><b>Mitigation Measures</b></p> <p>shall be the preferred method of treatment for archaeological resources that meet the criteria for historical resources (CEQA Guidelines Section 15064.5(a)) and/or unique archaeological resources (California Public Resources Code Section 21083.2(g)). Preservation in place maintains the important relationship between artifacts and their archaeological and cultural context and also serves to avoid conflict with traditional and religious values of groups who may ascribe meaning to the resource. Preservation in place may be accomplished by, but is not limited to, avoidance, incorporating the resource into open space, or deeding the site into a permanent conservation easement. In the event that preservation in place is demonstrated to be infeasible and data recovery through excavation is the only feasible mitigation available, as agreed upon by the qualified archaeologist, Native American representative(s), and DWR, a Cultural Resources Treatment Plan shall be prepared and implemented by a qualified archaeologist in consultation with Native American representative(s) and DWR that provides for the adequate recovery of the archaeological resource and accounts for any tribal concerns as expressed in the consultation process described above. DWR shall consult with appropriate Native American representatives in determining treatment only for prehistoric or Native American resources.</p> <p><b>CUL-4:</b> The qualified archaeologist shall prepare a final archaeological monitoring report within sixty (60) days of completion of the monitoring of ground disturbing activities related to the project. The report shall follow Archaeological Resource Management Reports: Recommended Contents and Format guidelines and DWR requirements and shall include at a minimum: a discussion of the monitoring methods and techniques used; the results of the monitoring program, including any artifacts recovered; an inventory of any resources recovered; California Department of Parks and Recreation (DPR) 523 forms for identified resources; notation of the final disposition of the resources; and any additional recommendations. A final copy shall be submitted to DWR, the Eastern Information Center (EIC), the Pechanga Tribe, and any other Native American group who requests a copy.</p> |  |                     |                    |
| <p><b>Implementation, Monitoring, and Reporting Action</b></p> <ul style="list-style-type: none"> <li>In the event of the unanticipated discovery of archaeological materials, immediately cease all work activities in the area as specified in Mitigation Measure CUL-3. Do not resume construction until the qualified archaeologist has conferred with DWR on the significance of the resource.</li> </ul>  | <p>Responsibility</p> <p>Construction Contractor</p> |                     | X                  |
| <ul style="list-style-type: none"> <li>Obtain a qualified archaeologist to prepare a final archaeological monitoring report.</li> <li>Send a copy of the report to Native American groups upon request.</li> <li>Retain the report in project file.</li> </ul>  | DWR  |                     | X                  |

**DWR PERRIS DAM REMEDIATION PROGRAM MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)**

|  | Implementation, Monitoring, and Reporting Action   | Responsibility          | Monitoring Schedule |                     |                    |
|--|--|-------------------------|---------------------|---------------------|--------------------|
|  |  |                         | Before Construction | During Construction | After Construction |
| <p><b>Mitigation Measures</b></p> <p><b>CUL-5:</b> All cultural materials collected during the monitoring program, and testing and/or data recovery of identified resources, excluding sacred items, burial goods and human remains the treatment of which would be determined by the Most Likely Descendant in coordination with the landowner (as prescribed in CUL-7 and in accordance with state laws), shall be curated at a facility that meets the curation standards set forth in 36 Code of Federal Regulations Part 79, as determined by DWR in consultation the qualified archaeologist and appropriate Native American representatives.</p> <p><b>CUL-6:</b> During ground excavation greater than 5 feet, construction activities will be monitored for paleontological resources. DWR shall retain a qualified paleontologist to oversee the monitoring effort and determine the appropriate duration of monitoring needed. In the event of the discovery of fossils or fossil-bearing soils during construction of the project, the contractor shall immediately report the finding to DWR. The qualified paleontologist will evaluate the finding and establish further collection and monitoring protocols. Construction in the vicinity of the finding will be halted until the qualified paleontologist has evaluated the finding..</p> | <ul style="list-style-type: none"> <li>Send all collected cultural materials from the monitoring program to a facility that meets the curation standards set forth in 36 Code of Federal Regulations Part 79.</li> <li>Consult with qualified archaeologist and appropriate Native American representative to find appropriate facility.</li> </ul>  | DWR                     | X                   |                     |                    |
| <p><b>CUL-6:</b> During ground excavation greater than 5 feet, construction activities will be monitored for paleontological resources. DWR shall retain a qualified paleontologist to determine the appropriate duration of monitoring needed and oversee monitoring of construction activities for paleontological resources.</p> <p>In the event of the discovery of fossils or fossil-bearing soils during construction of the project, immediately report the finding to DWR. Halt construction in the vicinity of the finding until DWR's retained qualified paleontologist has evaluated the finding and established further collection and monitoring protocols.</p>   | <ul style="list-style-type: none"> <li>During ground excavation greater than 5 feet, retain a qualified paleontologist to determine the appropriate duration of monitoring needed and oversee monitoring of construction activities for paleontological resources.</li> <li>In the event of the discovery of fossils or fossil-bearing soils during construction of the project, immediately report the finding to DWR. Halt construction in the vicinity of the finding until DWR's retained qualified paleontologist has evaluated the finding and established further collection and monitoring protocols.</li> </ul> | DWR                     | X                   |                     |                    |
|  |  | Construction Contractor |                     | X                   |                    |

**DWR PERRIS DAM REMEDIATION PROGRAM MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)**

|   | Implementation, Monitoring, and Reporting Action  | Responsibility | Monitoring Schedule |                     |                    |
|---|---|----------------|---------------------|---------------------|--------------------|
|   |   |                | Before Construction | During Construction | After Construction |
| <b>Mitigation Measures</b>  |   |                |                     |                     |                    |
| <b>CUL-7:</b> if human remains are encountered, consistent with California Health and Safety Code Section 7050.5, DWR shall immediately halt work within 100 feet of the discovery and contact the Riverside County Coroner. No further disturbance shall occur within 100 feet of the discovery until the Riverside County Coroner has made the necessary findings as to origin of the remains. Further, consistent with California Public Resources Code Section 5097.98(b), human remains shall be left in place and free from disturbance until a final decision as to the treatment and disposition has been made. Any further project-related activities shall take into account the possibility of multiple burials. |   | DWR            |                     | X                   |                    |
| If the Riverside County Coroner determines the remains to be Native American, the Native American Heritage Commission shall be contacted within twenty-four (24) hours. The Native American Heritage Commission shall immediately identify the Most Likely Descendant(s) and notify them of the discovery. The Most Likely Descendant(s) shall make recommendations within forty-eight (48) hours of being granted access to the site, and engage in consultations with the landowner concerning the treatment of the remains, as provided in Public Resources Code Section 5097.98.  | <ul style="list-style-type: none"> <li>In the event of the discovery of human remains during construction of the project, immediately report the finding to DWR. Halt construction in the vicinity of the finding until the Riverside County Coroner has arrived.</li> <li>In the event that the remains are determined to be Native American, the Native American Heritage Commission shall be contacted within 24 hours.</li> </ul> |                |                     |                     |                    |
| <b>Energy</b>   |   |                |                     |                     |                    |
| <i>No mitigation required.</i>  |   |                |                     |                     |                    |
| <b>Geology, Soils, and Mineral Resources</b>  |   |                |                     |                     |                    |
| <i>No mitigation required.</i>  |   |                |                     |                     |                    |
| <b>Hazards and Hazardous Materials</b>  |   |                |                     |                     |                    |
| <b>HAZ-1:</b> DWR shall coordinate with California State Parks and Lake Perris Fairgrounds management personnel to develop a site safety plan for the construction activities. The plan would identify construction zone access including fencing and gate control, routine patrolling, and signage.  | <ul style="list-style-type: none"> <li>Coordinate with California State Parks and Lake Perris Fairgrounds management personnel to develop a site safety plan for the construction activities.</li> </ul>  | DWR            |                     | X                   |                    |
| <b>Hydrology and Water Quality</b>  |   |                |                     |                     |                    |
| <i>No mitigation required.</i>  |   |                |                     |                     |                    |
| <b>Land Use and Planning / Agriculture and Forestry Resources</b>   |   |                |                     |                     |                    |
| Implement Mitigation Measure BIO-2a (see above).  |   |                |                     |                     |                    |
| <b>Noise</b>  |   |                |                     |                     |                    |

**DWR PERRIS DAM REMEDIATION PROGRAM MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)**

| Mitigation Measures   | Implementation, Monitoring, and Reporting Action  | Responsibility          | Monitoring Schedule |                     |                    |
|---|---|-------------------------|---------------------|---------------------|--------------------|
|   |   |                         | Before Construction | During Construction | After Construction |
| <p><b>NOISE-1:</b> Nighttime work shall not include blasting or sheet pile driving.</p>   | <ul style="list-style-type: none"> <li>Include Mitigation Measure NOISE-1 in the construction contract specification.</li> <li>Perform site inspections to verify contractor compliance with nighttime work limitations. Retain inspection records in the project file.</li> </ul>  | DWR                     | X                   | X                   |                    |
|   | <ul style="list-style-type: none"> <li>Do not include blasting or sheet pile driving during nighttime work.</li> </ul>  | Construction Contractor |                     | X                   |                    |
| <p><b>NOISE-2:</b> In coordination with DPR at Lake Perris SRA, construction contractors shall implement the following:</p> <ul style="list-style-type: none"> <li>Signs shall be posted at the construction sites that include permitted construction days and hours, a day and evening contact number for the job site, and a contact number in the event of problems.</li> <li>An on-site complaint and enforcement manager shall respond to and track complaints and questions related to noise.</li> </ul>   | <ul style="list-style-type: none"> <li>Include Mitigation Measure NOISE-2 in the construction contract specification.</li> <li>Perform site inspections to verify contractor compliance with sign postage and response to complaints and questions. Retain inspection records in the project file.</li> </ul>   | DWR                     | X                   | X                   |                    |
|   | <ul style="list-style-type: none"> <li>Post signs at the construction sites that include permitted construction days and hours, a day and evening contact number for the job site, and a contact number in the event of problems.</li> <li>Designate an on-site compliance and enforcement manager to respond and track complaints and questions related to noise.</li> </ul>   | Construction Contractor |                     | X                   |                    |
| <p><b>NOISE-3:</b> To reduce noise impacts due to construction, DWR shall require construction contractors to implement the following measures:</p> <ul style="list-style-type: none"> <li>During construction, the contractor shall outfit all equipment, fixed or mobile, with properly operating and maintained exhaust and intake mufflers, consistent with manufacturers' standards.</li> <li>Impact tools (e.g., jack hammers, pavement breakers, and rock drills) used for construction shall be hydraulically or electrically powered wherever possible to avoid noise associated with compressed air exhaust from pneumatically powered tools. Where use of pneumatic tools is unavoidable, an exhaust muffler on the</li> </ul> | <ul style="list-style-type: none"> <li>Include Mitigation Measure NOISE-3 in the construction contract specification.</li> <li>Perform site inspections to verify contractor compliance. Retain inspection records in the project file.</li> <li>Outfit all equipment, fixed or mobile, with properly operating and maintained exhaust and intake mufflers, consistent with manufacturers' standards.</li> <li>Hydraulically or electrically power impact tools wherever possible to</li> </ul> | DWR                     | X                   | X                   |                    |
|   | <ul style="list-style-type: none"> <li>Outfit all equipment, fixed or mobile, with properly operating and maintained exhaust and intake mufflers, consistent with manufacturers' standards.</li> </ul>  | Construction Contractor |                     | X                   |                    |

**DWR PERRIS DAM REMEDIATION PROGRAM MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)**

| Implementation, Monitoring, and Reporting Action  | Responsibility  | Monitoring Schedule |                     |                    |
|---|---|---------------------|---------------------|--------------------|
|   |   | Before Construction | During Construction | After Construction |
| <p><b>Mitigation Measures</b></p> <p>compressed air exhaust shall be used. External jackets on the tools themselves shall be used where feasible. Quieter procedures, such as use of drills rather than impact tools, shall be used whenever feasible.</p> <ul style="list-style-type: none"> <li>Stationary noise sources that could affect adjacent receptors shall be located as far from adjacent receptors as possible.</li> <li>Daytime construction activities would be limited to the times of 7:00 a.m. and 7:00 p.m.</li> <li>Residents and park visitors shall be notified in advance of the night work schedule.</li> </ul>   | <p>avoid noise associated with compressed air exhaust from pneumatically powered tools. Where use of pneumatic tools is unavoidable, use an exhaust muffler on the compressed air exhaust. Use external jackets on the tools themselves where feasible. Use quieter procedures, such as drills rather than impact tools, whenever feasible.</p> <ul style="list-style-type: none"> <li>Locate stationary noise sources that could affect adjacent receptors shall be located as far from adjacent receptors as possible.</li> <li>Limit daytime construction activities to 7:00 a.m. and 7:00 p.m.</li> <li>Notify residents and park visitors in advance of the night work schedule</li> </ul> |                     |                     |                    |
| <p><b>NOISE-4:</b> A Blasting Plan for construction shall be prepared and followed that includes the following:</p> <ul style="list-style-type: none"> <li>Primary components of the Blasting Plan shall include: <ul style="list-style-type: none"> <li>Identification of blast officer;</li> <li>Scaled drawings of blast locations, and neighboring buildings, streets, or other locations which could be inhabited;</li> <li>Blasting notification procedures, lead times, and list of those notified. Public notification to potentially affected vibration and nuisance noise receptors describing the expected extent and duration of the blasting;</li> <li>Description of means for transportation and on-site storage and security of explosives in accordance with local, state and federal regulations;</li> <li>Minimum acceptable weather conditions for blasting and safety provisions for potential stray current (if electric detonation);</li> <li>Traffic control standards and traffic safety measures (if applicable);</li> <li>Required personal protective equipment;</li> </ul> </li> </ul> | <p>DWR</p>  | X                   | X                   |                    |
| <ul style="list-style-type: none"> <li>Blasting rounds shall be sequenced and scheduled as specified in Mitigation Measure NOISE-4.</li> <li>Prepare a sound attenuation plan outlining sound control measures that would include the use of blasting mats or sound walls.</li> <li>If vibration results in damage to any nearby structures or utilities, or scenic rock faces, immediately cease blasting. Monitor the stability of segmental retaining walls, existing slopes, creek canals, etc. Any evidence of instability due to blasting operations shall result in immediate termination of blasting.</li> </ul>  | <p>Construction Contractor</p>  | X                   | X                   |                    |

**DWR PERRIS DAM REMEDIATION PROGRAM MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)**

|  | Mitigation Measures   | Implementation, Monitoring, and Reporting Action  | Monitoring Schedule |                     |                     |
|--|---|---|---------------------|---------------------|---------------------|
|  |   |   | Responsibility      | Before Construction | During Construction |
|  | <ul style="list-style-type: none"> <li>- Minimum standoff distances and description of blast impact zones and procedures for clearing and controlling access to blast danger;</li> <li>- Procedures for handling, setting, wiring, and firing explosives; and procedures for handling misfires per Federal code;</li> <li>- Type and quantity of explosives and description of detonation device.</li> <li>• Sequence and schedule of blasting rounds, including general method of excavation, lift heights, etc.;</li> <li>- Methods of matting or covering of blast area to prevent flyrock and excessive air blast pressure;</li> <li>- Description of blast vibration and air blast monitoring programs;</li> <li>- Dust control measures in compliance with applicable air pollution control regulations (to interface with general construction dust control plan);</li> <li>- Emergency Action Plan to provide emergency telephone numbers and directions to medical facilities. Procedures for action in the event of injury;</li> <li>- Material Safety Data Sheets for each explosive or other hazardous materials to be used;</li> <li>- Evidence of licensing, experience, and qualifications of blasters;</li> <li>- Description of insurance for the blasting work.</li> <li>• A sound attenuation plan shall be prepared outlining sound control measures that would include the use of blasting mats or sound walls.</li> <li>• If vibration results in damage to any nearby structures or utilities, or scenic rock faces, blasting shall immediately cease. The stability of segmental retaining walls, existing slopes, creek canals, etc. shall be monitored and any evidence of instability due to blasting operations shall result in immediate termination of blasting.</li> </ul> | <ul style="list-style-type: none"> <li>• Ensure explosive materials delivery and transportation shall meet the requirements specified in Mitigation Measure NOISE-4.</li> <li>• Comply with U.S. Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) table-of-distance requirements as specified in NOISE-4.</li> <li>• Provide 24-hour security and/or the use of motion-detector and alarmed double wire fencing security measures around the stored explosives.</li> </ul> |                     |                     |                     |

**DWR PERRIS DAM REMEDIATION PROGRAM MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)**

|   | Implementation, Monitoring, and Reporting Action | Responsibility | Monitoring Schedule |                     |                    |
|---|--|----------------|---------------------|---------------------|--------------------|
|   |  |                | Before Construction | During Construction | After Construction |
| <b>Mitigation Measures</b>  |  |                |                     |                     |                    |
| <ul style="list-style-type: none"> <li>Explosive materials shall be delivered in specially built vehicles marked with United Nations (UN) hazardous materials placards. Explosives and detonators shall be delivered in separate vehicles or be separated in compartments meeting DOT rules within the same vehicle. Vehicles shall have at least two ten-pound Class-A fire extinguishers and all sides of the vehicles display placards displaying the UN Standard hazard code for the onboard explosive materials. Drivers shall have commercial driver licenses (CDL) with Hazmat endorsements, and drivers shall carry bill-of-lading papers detailing the exact quantities and code dates of transported explosives or detonators.</li> <li>The contractor must comply with U.S. Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) table-of-distance requirements (CFR 27, U.S. Department of Justice, Alcohol, Tobacco, Firearms and Explosives Division Part 555) that restrict explosive quantities based on distance from occupied buildings and public roadways. Employees must also comply with the security requirements of the Safe Explosives Act (Title XI, Subtitle C of Public Law 107-296, Interim Final Rule), implemented in March 2003. These requirements require background checks for all persons that use, handle or have access to explosive materials; and responsible persons on a now required federal explosives license must submit photographs and fingerprints with the application to ATF.</li> <li>The contractor shall provide 24-hour security and/or the use of motion-detector and alarmed double wire fencing security measures around the stored explosives.</li> </ul> |  |                |                     |                     |                    |
| <b>Public Services, Utilities, and Service Systems</b>  |  |                |                     |                     |                    |

**DWR PERRIS DAM REMEDIATION PROGRAM MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)**

| Mitigation Measures  | Implementation, Monitoring, and Reporting Action   | Responsibility | Monitoring Schedule |                     |                    |
|--|--|----------------|---------------------|---------------------|--------------------|
|  |  |                | Before Construction | During Construction | After Construction |
| <p><b>UTIL-1:</b> DWR shall create a temporary emergency access road for use only by emergency responders on an as-needed basis. This road would connect Evans Road and Lake Perris Drive during full closure (Option B) of the bridge construction at Evans Road. If Option B is chosen, DWR shall provide the location of the temporary road to appropriate emergency responders within the local area prior to the start of construction activities. The temporary emergency access road shall comply with the California Fire Code, Riverside County Ordinance 460, Riverside County Ordinance 787, and Riverside County Fire Department Standards.</p>  | <ul style="list-style-type: none"> <li>Create a temporary emergency access road for use only by emergency responders on an as-needed basis as described in Mitigation Measure UTIL-1.</li> <li>If Option B is chosen, provide the location of the temporary road to appropriate emergency responders within the local area.</li> </ul> | DWR            |                     | X                   |                    |
| <p><b>UTIL-2:</b> During design and prior to construction, an underground utilities search will be conducted to compile available information on utility locations.</p>  | <ul style="list-style-type: none"> <li>During design and prior to construction, conduct an underground utilities search to compile available information on utility locations.</li> </ul>  | DWR            | X                   |                     |                    |
| <b>Recreation</b>  |  |                |                     |                     |                    |
| <i>No mitigation required.</i>   |  |                |                     |                     |                    |
| <b>Transportation and Traffic</b>  |  |                |                     |                     |                    |
| <p><b>TRANS-1:</b> For proposed bridge construction at Evans Road (Option A or Option B), DWR shall implement the following measures for each designated intersection.</p> <ol style="list-style-type: none"> <li><i>Perris Boulevard and Iris Avenue</i><br/>Create a new northbound right-turn overlap phase; change westbound, northbound, and southbound left-turn phasing to protected-permissive.</li> <li><i>Lasselle Street and Iris Avenue</i><br/>At all approaches, change left-turn phases to protective-permissive.</li> <li><i>Perris Boulevard and Krameria Avenue</i><br/>Restripe westbound approach to provide two left-turn lanes and a shared thru-right lane. Change westbound left-turn phase to protective permissive with eastbound phase remaining as permissive.</li> <li><i>Lasselle Street and Krameria Avenue</i><br/>At all approaches, change left-turn phased to protected-permissive.</li> <li><i>Perris Boulevard and Hartley Knox Boulevard</i><br/>At northbound, southbound, and eastbound approaches, change left-turn phases to protected-permissive.</li> <li><i>Perris Boulevard and Ramona Expressway</i><br/>At all approaches, change left-turn phasing to protected-permissive. Restripe northbound lanes to provide two</li> </ol> | <ul style="list-style-type: none"> <li>Include the design features described in Mitigation Measure TRANS-1 for each designated intersection.</li> </ul>  | DWR            | X                   |                     |                    |

**DWR PERRIS DAM REMEDIATION PROGRAM MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)**

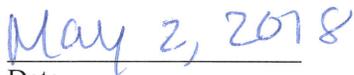
| Mitigation Measures  | Implementation, Monitoring, and Reporting Action | Responsibility | Monitoring Schedule |                     |                    |
|--|--|----------------|---------------------|---------------------|--------------------|
|  |  |                | Before Construction | During Construction | After Construction |
| left-turn lanes, two thru-lanes and one shared thru-right lane.<br>11. <i>Redlands Avenue and Ramona Expressway (Option B only)</i><br>At southbound and east bound approaches, change left-turn phase to protected-permissive. At northbound and southbound approaches change right-turn phase to permissive-overlap. |  |                |                     |                     |                    |

## MITIGATION MONITORING AND REPORTING PROGRAM DETERMINATION

I adopt the Mitigation Monitoring and Reporting Program set forth in this Exhibit D, which meets the requirements of CEQA Guidelines Section 15091(d).



Karla Nemeth, Director  
Department of Water Resources



Date

